

Bloc Fonction



OMRON ELECTRONICS S.A.S.
14 Rue de Lisbonne
93561 Rosny-sous-Bois cedex

N° Indigo 0 825 825 679
0.15€ TTC/mn

Référence	Modbus_TCP_Fn_10
Révision	2.3
Auteur	Regis C. & JPV
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+ Support	http://support-omron.fr/

Function Block Modbus TCP Write Reg

Function	Modbus TCP Write Reg	
Symbol		
File	Modbus_TCP.html	
PLC	CJ1xx-V3 + CJ1W-ETN21, CS1xx + CS1W-ETN21, CJ2H/M + CJ1W-ETN21	
Conditions d'utilisation	<p>The FB Modbus TCP Client offers some read/write features in accordance with the specifications defined by the Modbus organisation.</p> <p>The Modbus TCP Client function block is offered 'as is' and may serve as a basis for development. Users should previously test its adequacy to the final application. Omron could not be held responsible in case of malfunction</p>	
Restrictions	The function block Modbus_TCP_Fn10 could not be used without establishing first a connection using the function block Modbus_TCP_Connect.	
Principe	<p>The "Socket_No" must be the same number that FB "Modbus_TCP_Connect" has used to establish the connection to the server. The input "Start" send the a request to write n registers (n= Register_Qty) to the server specified by "Socket_No". Write data are stored first in the "Send_Data_Area", at address "Send_Data_1st_Address". "Busy" output stay ON during the process. "Error" output is rised when error occurs and "Error_Code" will be output. 128 words are allocated for the execution of this function block. "Process_Data_Area" start at address "Process_Data_1st_Address".</p>	

Input Variables

Nom	type	Range	Description
Unit_n°	UINT	0 to 15	ETN21 Unit number
Socket_n°	UINT	1 to 8	socket number (same used with the FB Modbus TCP_Connect)
Start	BOOL	OFF, ON	Send command
Unit_Identifier	UINT	00 à FF	Slave N° (always FF)
Register_First_Address	UINT	0 to 65535	Adresse du 1 ^{er} registre to write
Register_Qty	UINT		
Process_Data_Area	WORD	P_CIO, P_DM, P_EMx, P_HR, P_WR	Memory area allocated to the execution of Modbus_TCP_Fn_10.
Process_Data_1st_Address	UDINT		1 st address of the process area (128 words reserved)
Send_Data_Area	WORD	P_CIO, P_DM, P_EMx, P_HR, P_WR	Memory area allocated to store the response data
Send_Data_1st_Address	UDINT		1st address of response area

Output Variables

Nom	type	Range	Description
ENO	BOOL	OFF, ON	FB executed
Busy	BOOL	OFF, ON	Send in process
Error	BOOL	OFF, ON	Error flag
Error_Code	UINT	0000 to FFFF	Error Code (see bellow)

Code erreur

Hexa	Decimal	
&1100	4352	Number bytes to send not in allowed range
&h110C	4364	Request switch turned ON during other processing
&h220F	8719	Specified socket is already processing a SEND request
&h2607	9735	Specified socket service parameter area is already being used by another socket
&h003E	0062	Internal buffer cannot be obtained due to high reception trafic
&h0045	0069	Error in communication with remote node
&h004B	0075	Error communication with remote node (again)
&h004E	0078	Remote IP address parameter error (ET unreachable)
&h0051	0081	Remote IP address parameter error (Host unreachable)
&h0053	0083	Error communication with remote HOST
&h0081	0129	Specified socket was closed during receive processing